JD
JENDIGITAL

B3LCD

8 x 30 Digital Camera Binocular

User's Guide

www.jenoptik-camera.com

ENGLISH

CONGRATULATIONS

Congratulations on the purchase of your digital camera binocular. It is integrated with an 8 x 30mm full-feathered binocular and a waterproof digital camera that requires no film to capture pictures or video. Read this manual before operating the camera binocular to become more familiar with it. The manual has been written and formatted with depth and detail so that you can easily follow the instruction to maximize the features of your camera binocular. Be sure to save this manual for future reference.

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OVERVIEW

SYSTEM REQUIREMENTS

Windows:

- PC with processor better than MMX Pentium 300 MHz
- Windows 98 SE (Second Edition)/2000/ME/XP
- Minimum 128 MB RAM
- USB port
- CD-ROM drive
- 1024 x 768 monitor, 24-bit color (true color)

Macintosh:

- Power Mac G3 or later
- Mac OS 9.0, 9.1, 9.2 and OS X
- Minimum 64 MB RAM
- USB port
- CD-ROM drive
- 640 x 480 monitor with thousands of color (millions of color recommended)

Specifications are subject to change without prior notice.

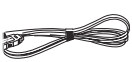
PACKAGE CONTENTS

Please contact your dealer immediately if any of the items below are missing or damaged.

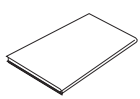
Camera Binocular

Carry Case

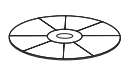
Neck Strap



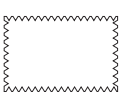
USB Cable



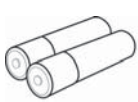
Quick Start Guide



Software Installation CD-ROM(Including multilingual User's Guide)



Cleaning Cloth



Battery 2x AAA

Battery charger (optional)

CAMERA COMPONENTS

Fig.1: Top View

1. Objective Lens
2. Camera Lens
3. Camera Focus Ring
4. LCD
5. Power/Menu Button
6. Shutter Button
7. Diopter Scale
8. Eyepieces
9. Barrel
10. Up Button
11. Down Button
12. Left Button
13. Right Button
14. Battery/Memory Card/USB Compartment
15. Battery Door Slide Tab
16. Binocular Focus Knob

Fig.2: Rear View

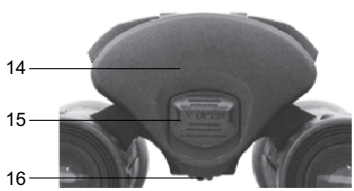
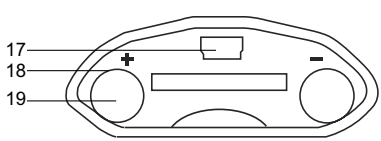


Fig.3: Front View

Fig.4: Inside Battery Door



17. USB Port
18. SD Card Slot
19. Battery Compartments
20. Near Focus indicator
21. Far Focus indicator
22. Camera Focus Ring
23. Camera Lens

USING THE CAMERA BINOCULAR AS A TELESCOPE

ADJUSTING THE BARRELS

You may need to adjust the barrels as the distance between the eyes of each people is usually different.

1. Hold Camera Binocular up to your eyes in the normal viewing position. Use both hands to hold each barrel firmly.
2. Pull the barrels apart or push the barrels together until you see a single circular field with both of your eyes.

SETTING THE FOCUS OF THE BINOCULAR

1. Set the **Diopter Scale** at its “0” point (between “+” and “-” mark)
2. Choose an object (such as a telephone pole) that is at least 50 feet (15m.) away.
3. Looking with only your left eye, rotate the **Focus Knob** until the object you are viewing is focused.
4. Looking with only your right eye, rotate the **Diopter Scale** until the object you are viewing is focused.
5. Now, looking with both eyes, rotate the **Focus Knob** to focus on both far and near objects.

ADJUSTING THE EYE RELIEF

If you wear eyeglasses, you may fold the rubber eyecups outward down so to hold the eyepieces up against your glasses for a clearer view.

USING THE CAMERA BINOCULAR AS A CAMERA

GETTING STARTED

INSTALLING THE BATTERIES

The camera uses 2 x AAA alkaline, lithium or rechargeable batteries. Rechargeable batteries (Ni-MH) are highly recommended.

1. Press the **Slide Tab** down, and lift up the Battery door.
2. Insert two AAA batteries with the positive (+) and negative (-) poles matching the directions indicated aside the battery compartment.
3. Close the Battery door and push the **Slide Tab** up to lock up the door.

Note: The Battery door must be fully closed and locked. Otherwise the camera binocular cannot be exposed to rain, mist, splashing etc.

Battery Status Indications

The LCD monitor displays an icon to let you know battery status.

Battery Level	High → Low
Indicator	

When low battery icon is shown on the LCD, replace the batteries or recharge the batteries with new ones.

INSERTING AN SD OR MMC MEMORY CARD

The digital camera is equipped with a 32 MB internal memory. If no memory card is inserted in the camera, all pictures/video clips recorded with the camera will be stored in the internal memory. When a memory card is inserted in the camera, all files recorded will be stored on the card.

1. Press the **Slide Tab** down, and lift up the Battery door.
2. Insert the memory card in the direction as indicated aside the memory card slot, then gently but firmly push the card into the slot as far as possible. When the card is fully engaged, a click can be heard.
3. Close the Battery door and push the **Slide Tab** up to lock up the door.

To remove the memory card

1. Turn off the camera.
2. Open the Battery door.
3. Gently press on the edge of the card to release it.
4. Pull the card out and close the Battery door.

TURNING THE CAMERA ON / OFF

Press and hold the ⏻/M (**Power/Menu**) button for about 3 seconds to turn the camera on.

To turn off the camera

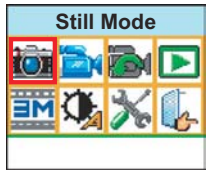
The camera will automatically shut off after being idled for 10 minutes.
To save batteries, you may press ◀ / ▭ to turn the LCD off when the LCD is not in use.

SELECTING THE CAMERA MODE

The camera has four functional modes:

	Still Mode	For shooting still images.
	Movie Mode	For recording video clips.
	Flashback Mode	For recording video clip in a selected period of time (5, 10, 15 or 20 seconds).
	Playback Mode	For viewing the recorded images and or video clips.

1. Press the ⏻/M button.
2. Press ▼ , ▲ , ◀ or ▶ to highlight the desired mode.
3. Press the ⏻/M button again to confirm. The camera will enter the related mode in a few seconds.



TURNING THE LCD ON OR OFF

The camera is featured with a 1.5" LCD that is highly convenient for framing subjects during image/ video capture, reviewing stored images/video clips, and for on-screen display of the camera's current settings.

To save battery power, follow steps below to turn off the LCD when it is not in use.

1. Press ◀ / ▭ to turn the LCD off.
2. Press ▶ / ▭ to turn the LCD back on.

Note: The LCD cannot be turned off in Playback mode (▶).

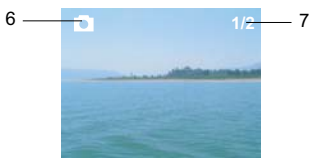
INFORMATION DISPLAYED ON THE LCD MONITOR

The LCD displays information such as the camera mode, battery level, and image capacity etc.

Shooting Mode

1. Camera Mode
2. Exposure
3. Resolution (Size)
4. Number of Recorded Images
5. Battery Status

Playback Mode



6. File Type (image or video)
7. Sequence no. of current file/Total file number

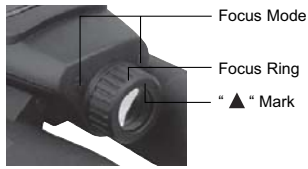
Note: Refer to page 5 for information on how to turn the LCD icons on or off.

TAKING PICTURES

TAKING STILL PICTURES

The camera is designed to capture objects in at least 30 feet (9m) away. Follow steps below to take pictures:

1. **Setting Focus Mode**
   Rotate the **Focus Ring** until the " ▲ " mark that is engraved on the Focus Ring is aimed at the desired focus mode icon and the Focus Ring cannot be further rotated in that direction.

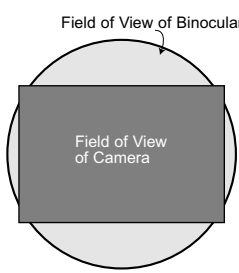


   The camera has two focus modes:

Icon	Mode	Description
( )	Near Focus	For shooting objects in 46 feet to 56 feet (14-17m) away.
▲	Far Focus	For shooting objects in more than 82 feet (25m) away.

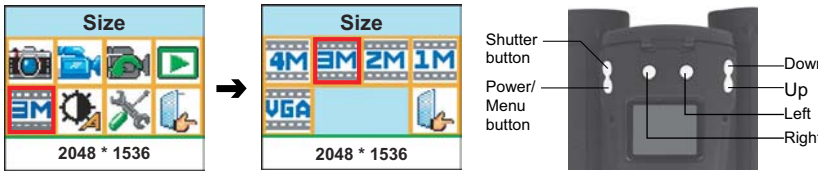
2. Power on the camera. (P. 5)
3. Set the camera mode to Still Mode ( ). (P. 5)
4. Use the LCD or the binocular to frame the subject.
5. Hold the camera steadily and press the Ⓢ (Shutter) button. The image will be shot in a few seconds.

Note for framing subject with binocular:
When you frame subject by using the binocular, there will have some differences between what you frame and what is actually captured. See the figure below to understand the differences on field of view. It is recommended to do some test shootings before proceeding to shot important image.



SETTING IMAGE RESOLUTION

You can choose a resolution to suit your purpose. Higher settings contain more details and have larger file sizes.



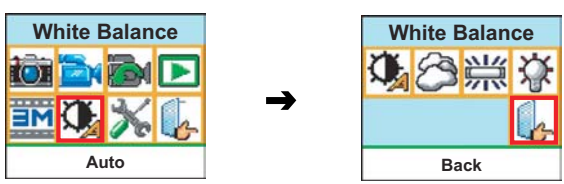
1. Press ⏻/M to show the camera main menu.
2. Press ◀ to highlight **Size**, and then press ⏻/M again to enter its sub-menu.
3. Press ▼ , ▲ ,◀or ▶ to select the desired settings: **4M**, **3M**, **2M**, **1M** or **VGA**, and then press ⏻/M to confirm.
4. Press Ⓢ to exit.
   You may also press ▶ to highlight **Exit** and then press ⏻/M to exit.

Icon	Resolution	Images stored on 32MB internal memory (approx.)	Remark
★★★	2272 x 1704 (4M)	20	Interpolated
★★★	2048 x 1536 (3M)	40	default setting
★★	1600 x 1200 (2M)	80	...
★	1280 x 960 (1M)	145	...
V	640 x 480 (VGA)	300	...

Note: The actual value of capacity may vary (up to +-30%) depending on the color saturation and complexity of your subject and surroundings.

SETTING WHITE BALANCE

By default the camera uses Auto White Balance to reproduce colors under different lighting conditions. For mixed lighting conditions, it is recommended to use the Auto White Balance. However, if the lighting condition is identical to one of the following White Balance settings, set the White Balance to the corresponding mode to get pictures with colors more accurately.



	Auto	The camera will choose automatically the White Balance setting.
	Cloudy	For recording under overcast, shady or twilight skies
	Fluorescent	For recording under fluorescent lighting
	Tungsten	For recording under tungsten lighting

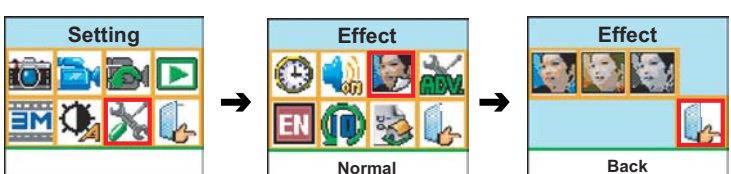
1. Press ⏻/M.
2. Press ◀ to highlight **White Balance**, and then press ⏻/M again to enter its sub-menu.
3. Press ▼, ▲, ◀ or ▶ to select the desired settings and then press ⏻/M to confirm.
4. Press Ⓢ to exit.
   You may also press ▶ to highlight **Exit** and then press ⏻/M to exit.

SETTING PICTURE EFFECT

You can shoot still image with different effects.

Picture Effect	Description
Normal (Default)	Taking pictures without special effect.
Classical	Taking pictures in sepia tones.
Black and White	Taking pictures in black and white.

1. Turn on the camera. (P. 5)
2. Press ⏻/M to enter the camera main menu.
3. Press ◀ to highlight **Setting** and then press ⏻/M again to enter its submenu.
4. Press ◀, ▶, ▼ or ▲ to highlight **Effects**, and then press ⏻/M to enter its submenu.
5. Press ◀, ▶, ▼ or ▲ to select **Normal**, **Classical** or **Black and White**, and then press ⏻/M to confirm.
6. Press Ⓢ to exit directly. Or press ◀, ▶, ▼ or ▲ to highlight **Back** and then press ⏻/M to return to the **Setting** menu.

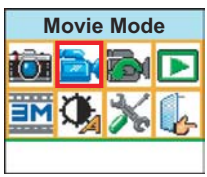


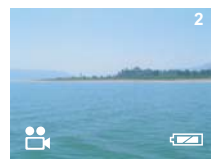
TAKING VIDEO CLIPS

The digital camera can record video clips at 320 x 240 without sound. The maximum length of the video depends on how much free memory the camera has.

1. Set the focus mode to **Near Focus** ( ) or **Far Focus** ( ). (P. 7)
2. Press ⏻/M to power on the camera.
3. Set the camera mode to **Video** Mode ( ). (P. 5)
4. Use the LCD or the binocular to frame the subject.

   Note: Please refer to the note on page 7 when framing subject by using binocular.
5. Press Ⓢ to start recording.
6. Press Ⓢ again to stop recording. Otherwise the camera stops recording automatically when the memory capacity is reached.





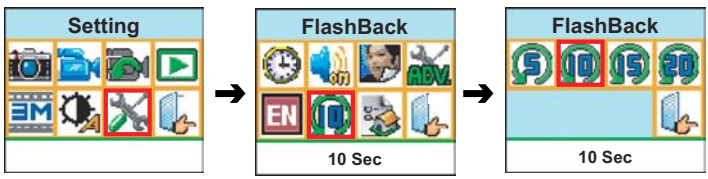
Video Clip Information

Resolution: 320 x 240
Frame rate: 15fps
File Format: AVI (Motion Picture)
Maximum video length with the 32MB built-in memory: 200 seconds

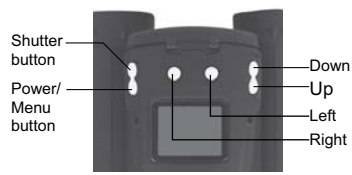
TAKING FLASHBACK VIDEO CLIPS

You can let the camera to record video clips as long as you like but save only the last 5, 10, 15 or 20 seconds' contents. This is very useful when you wish to capture a short activity but are not sure when it will begin, or when you wish to capture several short activities but do not want to use up the memory.

1. Setting video length



1) Press ⏻/M to power on the camera.
2) Press ⏻/M again to enter main menu.
3) Press ◀ to highlight **Setting** and then press ⏻/M to enter its submenu.
4) Press ◀ to highlight **Flashback** and then press ⏻/M to enter its submenu.
5) Press ▼, ▲, ◀ or ▶ to select the desired period of time: **5**, **10**, **15** or **20** seconds, and then press ⏻/M to confirm.
6) Press Ⓢ to exit.



2. Set the focus mode to **Near Focus** ( ) or **Far Focus** ( ). (P. 7)
3. Set the camera mode to **Flashback Mode** ( ). (P. 5)
4. Use the LCD or the binocular to frame the subject.

   Note: Please refer to the note on page 7 when framing subject by using binocular.
5. Press Ⓢ to start recording.
6. When the activities that you really want to record is at its end, press Ⓢ again to stop recording. The last 5, 10, 15 or 20 seconds' content will be saved.

Maximum number of Flashback video clips that can be stored on the 32MB internal memory (approx.):

Video length	5 seconds	10 seconds	15 seconds	20 seconds
Number of Flashback video clips can be stored	20	10	6	5

Note: The actual value of capacity may vary (up to +-30%) depending on the color saturation and complexity of your subject and surroundings.

REVIEWING FILES

REVIEWING THE STORED FILES

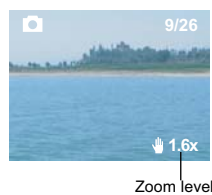
You can view the recorded images and video clips on the camera.

1. Press ⏻/M to power on the camera.
2. Press ⏻/M again to show camera main menu.
3. Press ▲ to highlight **Playback and Memory** (▶), and then press ⏻/M to confirm. The last recorded image or video clip will be shown on the LCD in a few seconds.
4. Press ◀ or ▶ to scroll through the stored files.
   - If it is a video clip, it will start play automatically. Press ◀ or ▶ to stop playing of the video clip.

MAGNIFYING THE STORED IMAGES

Still images can be magnified up to 3 times.

1. In the Playback mode (▶), press ◀ or ▶ to find out the image to be magnified.
2. Press ▲ to enlarge the image. The zoom level is shown on the LCD. Maximum 3 times' enlargement can be achieved.
3. Press ▼ to zoom out.
4. When the zoom level is greater than "1", press ◀ or ▶ to enter panning mode. A hand shape icon is shown on the lower right side of the LCD.
5. Press ◀ , ▶ , ▼ or ▲ to navigate through the image.
6. Press ⏻/M to exit zoom mode.

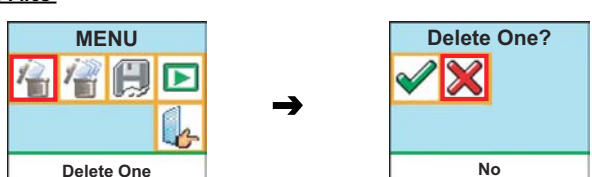


DELETING UNWANTED FILES

Delete files that you don't want to keep to make more memory space available.

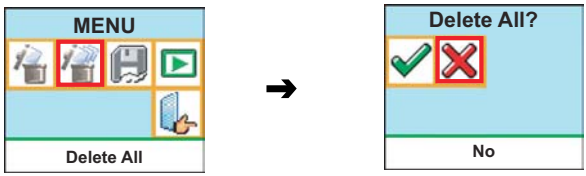
Please note that deleted file cannot be recovered. Exercise caution before deleting a file.

Deleting One Files



1. Enter Playback mode (▶). (P. 5 or 12)
2. Press ◀ or ▶ to find out the file to be deleted.
3. Press ⏻/M to show Playback main menu.
4. Press ◀ , ▶ , ▼ or ▲ to highlight **Delete One** and then press ⏻/M to enter its submenu.
5. Press ◀ to select **Yes**, then press ⏻/M to confirm. The selected file will be deleted.

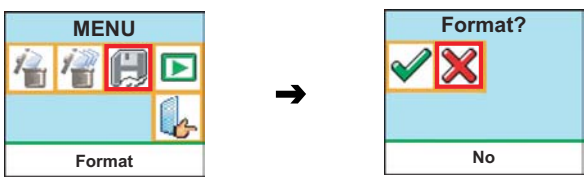
Deleting All Files



1. Enter Playback mode (▶). (P. 5 or 12)
2. Press ⏻/M to show Playback main menu.
3. Press ◀ , ▶ , ▼ or ▲ to highlight **Delete All** and then press ⏻/M to enter its submenu.
4. Press ◀ to select **Yes**, then press ⏻/M to confirm. All the stored files will be deleted in a few seconds. When all the files are deleted, the message of “No Image” will be shown on the LCD. Press Ⓢ to return to picture-taking mode.

FORMATTING INTERNAL OR CARD MEMORY

When you use a new memory card, or if you wish to delete all the files stored in the internal memory or memory card, please follow the steps below to format the internal memory or memory card:



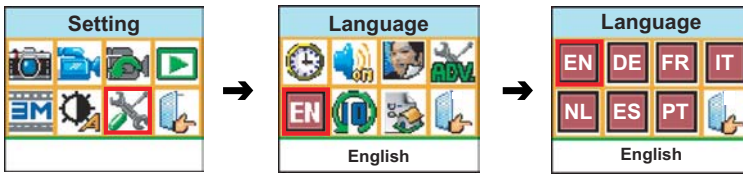
1. Insert the memory card if you want to format the memory card instead of the internal memory.
2. Press ⏻/M to power on the camera.
3. Press ⏻/M again to show camera main menu, then press ▲ to highlight Playback Mode (▶), and then press ⏻/M to confirm.
4. Press ⏻/M to show Playback main menu.
5. Press ◀ , ▶ , ▼ or ▲ to highlight **Format** and then press ⏻/M to enter its submenu.
6. Press ◀ to select **Yes**, then press ⏻/M to confirm. Internal memory or memory card will be formatted in a few seconds.
7. When the memory is formatted, the message of “**No Image**” will be shown on the LCD. Press Ⓢ to return to picture-taking mode.

Note:

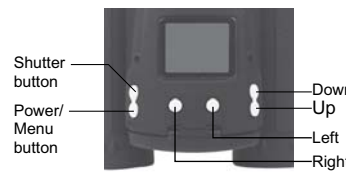
1. Formatting will erases all the data in the internal memory or on the card. Please check the contents in the memory before formatting it.
2. Cards formatted in another camera, computer or peripheral device may not operate correctly. When that happens, reformat the card with this camera.

CUSTOMIZING THE CAMERA SETTINGS

SETTING THE LANGUAGE

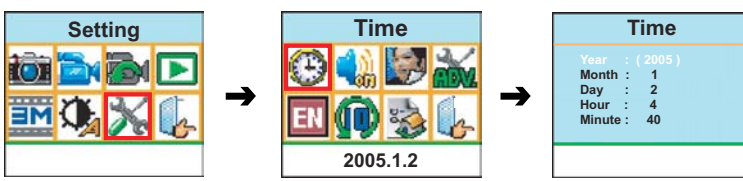


1. Press ⏻/M , the main menu is shown.
2. Press ◀ to highlight **Setting**, then press ⏻/M again to enter its sub-menu.
3. Press ◀ to highlight **Language** then press ⏻/M to confirm.
4. Press ▼ or ▲ to select the desired language.
5. Press ⏻/M to confirm the setting.



SETTING THE DATE AND TIME

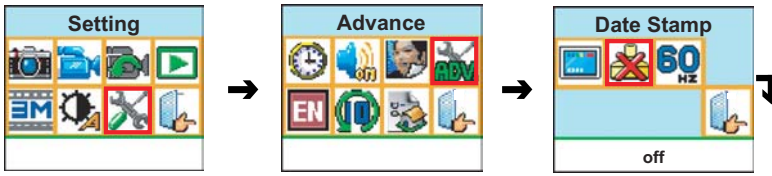
The Date/Time screen will flash on the LCD when powering the camera on. Follow steps below to set or adjust date and time:

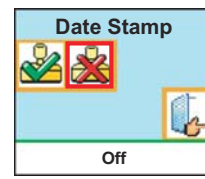


1. Press ⏻/M , the main menu is shown.
2. Press ◀ to highlight **Setting**, then press ⏻/M again to enter its sub-menu.
3. Press ◀ , ▶ , ▼ or ▲ to highlight **Time**, then press ⏻/M to confirm.
4. Press ▼ or ▲ to set **Year**.
5. Press ⏻/M to confirm the setting. The **Month** will be highlighted then.
6. Repeat steps 4 to 5 to set all the date and time.

TURNING THE DATE STAMP ON OR OFF

By default the Date Stamp is set at **OFF** mode. If you want to have Date and Time shown on the pictures, set the Date Stamp to **ON** mode.





1. Press ⏻/M to power on the camera.
2. Press ⏻/M again to enter the camera main menu.
3. Press ◀ to highlight **Setting** and then press ⏻/M to enter its submenu.
4. Press ◀ to highlight **Advance** and then press ⏻/M to enter its submenu.
5. Press ◀ , ▶ , ▼ or ▲ to highlight **Date Stamp**, and then press ⏻/M to enter its submenu.
6. Press ◀ or ▶ to select **On** or **Off**, and then press ⏻/M to confirm.
7. Press Ⓢ to exit.
   Or press ◀ , ▶ , ▼ or ▲ to highlight **Back** and then press ⏻/M to return to the **Setting** menu.

Note: When Date Stamp is set ON, the date will appears in the lower right corner of images.

TURNING THE BEEP SOUND ON OR OFF

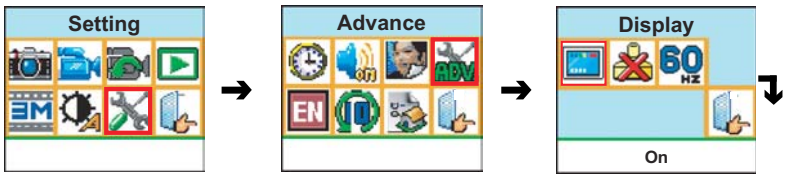
The camera provides an option to enable or disable the beep sound. The beep sound is ON by default. While the beep sound is on, the camera will beep in any of the following situations:

- When the camera is powered on.
- After an image is captured.
- When any button is pressed.

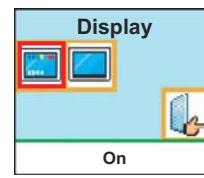
1. Press ⏻/M to power on the camera.
2. Press ⏻/M again to enter the camera main menu.
3. Press ◀ to highlight **Setting** and then press ⏻/M to enter its submenu.
4. Press ◀ , ▶ , ▼ or ▲ to highlight **Beep**, and then press ⏻/M to enter its submenu.
5. Presss ◀ or ▶ to select **On** or **Off**, and then press ⏻/M to confirm.
6. Press Ⓢ to exit.
   Or press ◀ , ▶ , ▼ or ▲ to highlight **Back** and then press ⏻/M to return to the **Setting** menu.

TURNING THE LCD ICON ON OR OFF

By default the LCD will display camera mode, memory type etc. information (p.6). If you want to turn off the icons, follow steps below:

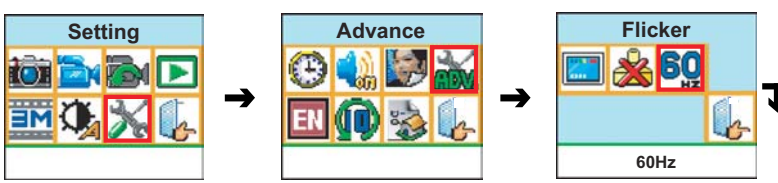


1. Press ⏻/M to power on the camera.
2. Press ⏻/M again to enter the camera main menu.
3. Press ◀ to highlight **Setting** and then press ⏻/M again to enter its submenu.
4. Press ◀ , ▶ , ▼ or ▲ to highlight **Advance**, and then press ⏻/M to enter its submenu.
5. Press ▲ to highlight **Display**, and then press ⏻/M to enter its submenu.
6. Press ◀ or ▶ to select **On or Off**, and then press ⏻/M to confirm.
7. Press Ⓢ to exit.
   Or press ◀ , ▶ , ▼ or ▲ to highlight **Back** and then press ⏻/M to return to the **Setting** menu.

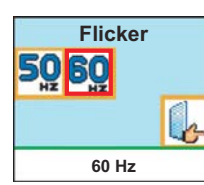


SETTING FLICKER RATE

While taking pictures or recording video clips indoor, the flicker of the light source may decrease the image quality. To ensure image quality, please set the camera's Flicker Rate same as that of the light source.



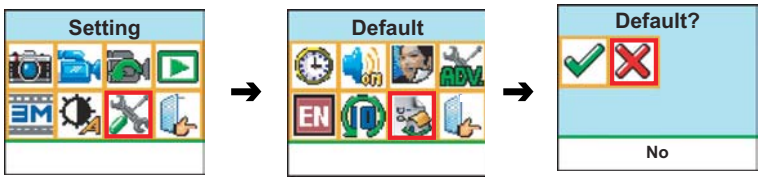
1. Check related document for the frequency of the light source: 50Hz or 60Hz.
   The current frequency of the United States is 60Hz. The default flicker rate is also 60 Hz.
2. Press ⏻/M to power on the camera.
3. Press ⏻/M again to enter the camera main menu.
4. Press ◀ to highlight **Setting** and then press ⏻/M to enter its submenu.
5. Press ◀ to highlight **Advance** and then press ⏻/M to enter its submenu.
6. Press ◀ to highlight **Flicker**, and then press ⏻/M to enter its submenu.
7. Press ◀ or ▶ to select **50Hz** or **60Hz**, and then press ⏻/M to confirm.
8. Press Ⓢ to exit.



Or press ◀ , ▶ , ▼ or ▲ to highlight ***Back*** and then press ⏻/M to return to the ***Setting*** menu.

Note: The flicker caused by direct shooting against light source cannot be eliminated.

RESTORING TO FACTORY DEFAULT SETTINGS



1. Press ⏻/M to power on the camera.
2. Press ⏻/M again to enter the camera main menu.
3. Press ◀ to highlight **Setting** and then press ⏻/M again to enter its submenu.
4. Press ◀ to highlight **Default** Settings, and then press ⏻/M to enter its submenu.
5. Press ◀ or ▶ to select **Yes** or **No**, and then press ⏻/M to confirm.

Please refer to the table below for the default settings.

OPTION	DEFAULT STATUS
Camera Mode	Picture mode
White Balance	Auto
Image Size	2048 x 1536 (3.2MP)
Beep	On
Picture Effect	Normal
LCD Icon	On
Date Stamp	Off
Flicker	60Hz
Flashback	10 seconds
Language	English

DOWNLOADING FILES TO A COMPUTER

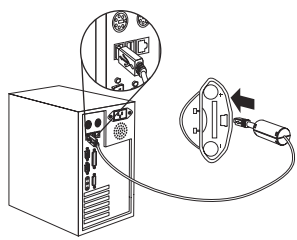
Download the files taken with the camera to a computer in one of the following ways:
1. Using n card reader.
2. Connect the camera to a computer with the USB cable.

DOWNLOADING FILES BY USING AN CARD READER

1. Take the memory card out from the camera (p.4), and insert it into a card reader.
2. Connect the card reader to the computer.
3. Double-click the removable disk representing the card reader.
4. Copy the files from the card into a folder on the hard disk of your computer.

DOWNLOADING FILES BY USING THE USB CABLE

Note for Windows 98SE users: You must install the camera driver supplied in the CD-ROM before connecting the camera to the computer.



1. Plug the larger end of the supplied USB cable to the computer's USB port.
2. Push the **Slide Tab** to open the Battery Door.
3. Plug the smaller end of the USB cable into the USB port of the camera. Then,

FOR WINDOWS USERS

1. Double-click on **My Computer**.
2. Double-click **Removable Disk**.
3. Double-click **DCIM**.
4. Double-click **100_JDB3**. The stored images or video clips will be shown.
5. Click and drag the files into a directory in your computer to save them.
   - To select all files, click **Edit>Select All**.

FOR MACINTOSH USERS

1. Double-click the "**untitled**" removable drive that is on your desktop.
2. Double-click **DCIM**.
3. Double-click **100_JDB3**. The stored images or video clips will be shown.
4. Drag and drop the files in the computer.

Note: To download files stored in internal memory, take the memory card out from the camera.

UNPLUGGING YOUR CAMERA FROM THE COMPUTER

FOR WINDOWS 98SE USERS

Unplug the Mini-USB from the camera directly.

fig.1.1

FOR WINDOWS 2000/ME/XP USERS

1. Click once on the "**Unplug or Eject Hardware**" icon on the right hand side of your task bar. (fig.1.1)
2. Select "**Stop USB Mass Storage Device**"
3. Click [**OK**] in the "**Safe to Remove Hardware**" prompt.
4. Unplug the Mini-USB from the camera. (fig.1.2)

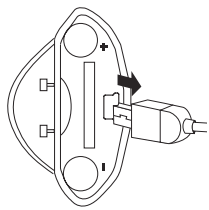


fig.1.2

FOR MACINTOSH USERS

1. Drag the "**JD B3LCD**" removable drive icon on the desktop to the Trash.
2. Unplug the Mini-USB cable from the camera.

INSTALLING SOFTWARE (WINDOWS)

USING THE INSTALLER SPLASH SCREEN

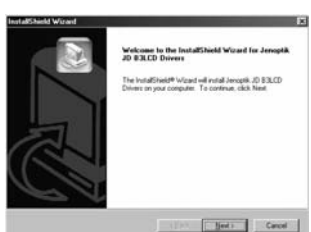
The installer will automatically detect which software applications need to be installed or if they are not necessary. This will be indicated by the buttons on the splash screen that appears when the CD-ROM is inserted into the computer:

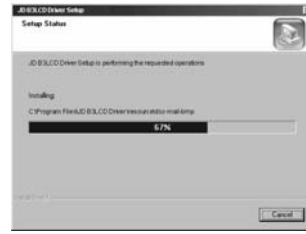
Color	Description
Yellow ( )	Required or highly recommended to install.
Gray ( )	Already installed or not necessary

Option	Function	Installation Requirement			
		Windows 98SE	Windows 2000	Windows ME	Windows XP
Camera Drivers	Enable the camera to become an external drive on your co mputer.	Required	No need		
Ulead Photo Explorer 8.0	Enables you to transfer the stored files from the camera to the computer, and to organize, edit or share photos. Can also enable Win 98SE/ 2000 user to review video clips downloaded onto the computer.	Required		Optional	
Ulead Cool 360	Enables you to transform a series of photos into a complete 360° panoramic or wide-angle panoramic scene for an immersive viewing experience.	Optional			
Adobe Acrobat Reader 5	Enables you to view the electronic version of the User's Guide.	Optional			
User's Guide	Direct link to the electronic version of the User's Guide in different languages. (All User's Guides are saved in PDF format.)	---			
Camera Support Website	Direct link to our camera support website. Please establish an internet connection before clicking on the link.	---			

INSTALLING THE CAMERA DRIVER (FOR WIN 98 SE USERS)

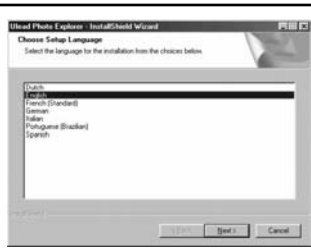
Note for Win 98 SE user: You must install the camera driver before proceeding to download files from the camera to your computer by using the USB cable. Once the camera driver is installed, you do not need to install it again.

Step 1	Start up the computer, and close any other applications or software you may be running.
Step 2	Insert the supplied CD-ROM into your computer's CD-ROM Drive.
Step 3	Select the language. Click **[OK]**. **NOTE:** If the installer does not start automatically within 30 seconds after the CD-ROM has been inserted, click on "**My Computer**" either on the Desktop or in the Start Menu and locate the CD-ROM Drive. Double click on the CD-ROM Drive icon for installation and proceed to Step 4.
Step 4	When the installation screen appears, click on **Install Jenoptik JD B3LCD Drivers**.
Step 5	Click **[Next]**. 

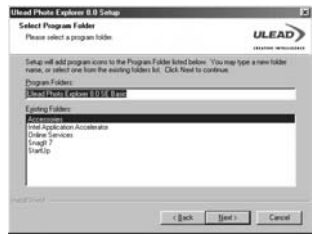
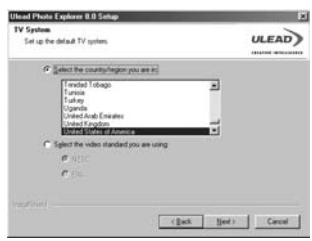
Step 6	Installation status bar appears. 
Step 7	When the installation is completed, click **[Finish]**.

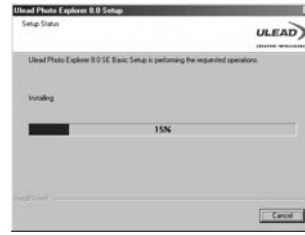
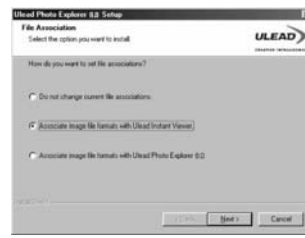
INSTALLING THE ULEAD PHOTO EXPLORER 8.0

Note for Win 98SE/2000 users: DirectX is needed to playback the video clips recorded with the camera. If you found that the video clips cannot be reviewed on your computer, please install the Ulead Photo Explorer 8, because it included DirectX.

Step 1	Start up the computer, and close any other applications or software you may be running.
Step 2	Insert the supplied CD-ROM into your computer's CD-ROM Drive.
Step 3	Select the language. Click **[OK]**. **NOTE:** If the installer does not start automatically within 30 seconds after the CD-ROM has been inserted, click on "**My Computer**" either on the Desktop or in the Start Menu and locate the CD-ROM Drive. Double click on the CD-ROM Drive icon for installation and proceed to Step 4.
Step 4	When the installation screen appears, click on **Install Ulead Photo Explorer 8.0SE Basic.**
Step 5	Selection language, then click **[OK].** 

Step 6	When the welcome window appears, click **[Next]** to continue with the installation.	
Step 7	When the Software License Agreement window appears, click **[Yes]** to accept the license and to continue. If you disagree with the terms of the license, click **[No]** to exit the installation.	
Step 8	When the User Information appears, click **[Next]**.	
Step 9	Select a destination folder in which the software will be installed and the click **[Next].** For most users, C:\Program files\ is the most appropriate choice.	

Step 10	Choose the Shortcut options then click **[Next].**	
Step 11	Click **[Next]** to begin copying files from the CD-ROM to the computer hard drive.	
Step 12	When the TV System window appears, select a country or video standard, then click **[Next]** to continue.	
Step 13	When the Setup Options window appears, Click **[Next]** to continue.	

Step 14	Now the installation starts. Please wait while the installing is in process.  Ulead Photo Explorer 8.0 Setup Setup Status ULEAD Ulead Photo Explorer 8.0 SE Basic Setup is performing the requested operations. Installing 15% Cancel
Step 15	When the File association window appears, select the option you want and then click **[Next]** to continue.  Ulead Photo Explorer 8.0 Setup File Association Select the option you want to install. ULEAD How do you want to set file associations? Do not change current file associations. Associate image file formats with Ulead Instant Viewer. Associate image file formats with Ulead Photo Explorer 8.0 Next Cancel
Step 16	When installation is completed, Click **[Finish]**. Ulead Photo Explorer 8.0 Setup InstallShield Wizard Complete Yes, I want to restart my computer now. No, I will restart my computer later. Finish (Win 98SE) (Win 2000/ME/XP) Win 98SE user need to restart the computer.

Note: Follow the on-screen information to complete the installation of Ulead Cool 360 and Adobe Acrobat Reader 5.

USING THE ULEAD PHOTO EXPLORER 8.0 SE BASIC

Photo Explorer is a handy Web-enabled program for quickly viewing any multimedia file (such as image, animated GIF, video, or sound) in your computer. Operating very much like the Windows Explorer, Photo Explorer displays all your folders and files in a tree-like structure. Selecting a folder from this tree structure displays the image and graphics files in visual thumbnails. This provides the advantage of finding images visually rather than remembering file names when you want to open, delete, move, or copy files. You can take advantage of drag-and-drop technology when you want to insert a file into another application. Refer to the application help documentation for information on using the software.

To start this program, click **Start** > **Program** > **Ulead Photo Explorer 8.0 SE Basic**

APPENDIX

TROUBLESHOOTING

Problem	Cause	Solution
The camera cannot be turned on.	Batteries are inserted in the wrong direction	Reload the batteries properly (p.4).
	Batteries are dead	Replace or recharge the batteries
	The battery compartment door is open	Make sure the battery compartment door is securely closed.
The camera cannot take pictures/video clips.	Memory is full.	Insert a new memory card.
	Memory card is not formatted correctly.	The card may be defective, use a new card.
Image is blurry or out of focus	The camera was moving when the image was captured	Hold the camera steady when shooting picture.
	The subject was beyond the focus range.	Set the focus to the correct mode. (p.7)
Recorded images/video clips are not saved in memory	The camera was turned off/powered down before the image was stored in memory	If the Battery Low indicator appears on the LCD monitor, replace the battery immediately.
Cannot transfer images to a computer after connecting the USB cable.	Camera driver is not installed	Install the camera driver before you connect the camera to a computer.

SPECIFICATIONS

Binocular power	8X					
Binocular objective lens diameter	30mm (1.18 in.)					
Binocular optical design	Folding roof prism, fully-coated					
Binocular close focus	5m (16 ft.)					
Camera Field of view (diagonal)	7.9°					
Binocular field of view	112m at 914m (367 ft. at 1000 yds.)					
Camera Sensor	Micron					
Camera Aperture	f/5.2, fixed lens					
Color LCD Display	1.5” LCD					
Focus Range	Near Focus: 14m to 17m. (46 ft. to 56 ft) Far Focus: 25m (82 ft.) to infinity					
Still Image Resolution	2272 x 1704 (4.0 megapixel, interpolated) 2048 x 1536 (3.2 megapixel) 1600 x 1200 (2.0 megapixel) 1280 x 1024 (1.3 megapixel) 640 x 480 (VGA), 24-bit color					
Video Resolution	Normal, Cloudy, Fluorescent, Tungsten					
White Balance	Auto, Day light, Cloudy, Tungsten, Fluorescent					
Picture Storage in 32MB internal memory(approx.)	Resolution (mega-pixels)	4M	3M	2M	1M	VGA
	Storage (image)	20	40	80	145	300
Memory	Built-in memory: 32MB Supported Memory (External) formats: Secure Digital (SD), Multi-Media Cards (MMC)					
Interface type	USB					
Power Supply	Two x AAA batteries					
Dimensions	(DWH) 147 x 127 x 69 mm(5.8 x 5 x 2.7inch)					
	Battery : 2 x AAA batteries					
Dimensions	90 x 56 x 20.3 (mm) / 3.54 x 2.20 x 0.8 (inches)					
Weight	Around 530 g (19 oz.) without batteries					
Ambient temperature	Operating : 0 to 40°C Storage : -20 to 50°C					

Specifications are subject to change without prior notice.

GETTING HELP

You can get help from the troubleshooting section, FAQ or Customer Support on our website.

Troubleshooting Section in this User's Guide
Please refer to the Troubleshooting section first, as it contains some of the most common problems that users encounter.

Website FAQ
Please visit our website at www.jenoptik-camera.com to view the Frequently Asked Questions (FAQ).

Website Customer Support
If the problem you are encountering is not listed in the FAQ section, please send us an email through our web site by clicking on **Contact Us**.
If you have questions concerning the operation of the camera or software installation, please have the following information ready before you contact us:

Camera Information:
Name of camera model:
Camera Serial Number:

Computer Information:
Operation System:
Computer Maker and Model:
Exact Error Message Received:

SAFETY TIPS AND MAINTENANCE

A Word about Waterproof

The camera binocular is designed to be used by the sportsperson, boater or casual user in an environment in which exposure to water, such as rain, mist, splashing and so forth, might be a possibility. However, it is not designed to take pictures underwater nor is it intended for any application underwater. In other words, it is intended to be resistant to accidental exposure to water. It is not designed for intentional submersion or extended use in water. If the camera binocular is intentionally immersed in water for any significant length of time, the electronics and optics may be damaged or destroyed, and you risk voiding the warranty in doing so.

Also note that although the camera binocular may be used near a water environment, water on the lens will cause the images that you capture to be distorted, just as it would with any camera. Take the time to towel off the camera lens with a soft cloth before attempting to capture an image. Also wipe off water from the entire device when you leave the water environment, and especially before storing.

Make sure that you are in a dry location before opening or closing the battery compartment in order to provide a water-tight seal for the electronics.

Cleaning

Cleaning the camera body:

1. Please use a soft dry cloth to clean the camera.

Cleaning the lens and LCD:

1. Blow off dirt or dust with a blower or canned air.
2. Gently wipe the lens, and/or LCD with a micro-fiber cloth.
3. To remove dirt or residue, moisten the cloth with lens cleaning fluid and gently wipe the lens, and/or LCD.
   Caution: Do not apply the fluid directly onto the lens or LCD.

Cleaning the battery contacts:

As a matter of routine operation and handling, should any debris or foreign contaminant deposit itself on the battery contacts in the camera and/or on the batteries, follow steps below to clean the battery contacts to ensure proper electrical operation:

1. Wet the tip of a cotton bud/swab with rubbing alcohol and squeeze the excess alcohol from the bud/swab.
2. Wipe the battery contacts inside the camera battery compartment and both ends of the batteries lightly with the damp bud.
3. Allow the contacts to dry before placing batteries in the camera.

Caution:

1) Do not press hard during cleaning, as this will cause damage to the battery contacts.
2) Do not use water to clean the contacts, as this will increase the chance of oxidation.
3) Do not use Acetone or Nail Polish remover to clean the contacts as this may adversely affect camera operation.

Safety Tips

Precautions for the camera:

- Do not attempt to modify this camera in any way. This may cause a fire, electric shock or severe

damage to the camera.
- When taking photographs, never point the lens of the camera directly into very strong light.
- Please do not use this product in close proximity to flammable or explosive gases as this could increase the risk of explosion.
- For safety reasons keep this product and accessories out of reach of children or animals to prevent accidents.
- Do not swallow batteries or small camera accessories.
- Should any form of liquid enter the camera, do not use it. Switch the camera off, and then remove the batteries. Do not continue to use the camera as this may cause a fire or electric shock.
- Do not insert or drop metallic or inflammable foreign objects into the camera through access points e.g. card slot and battery chamber. This may cause a fire or electric shock.
- Under the environment with electrostatic discharge, the camera may malfunction and require the user to reset the camera.
- Under the environment with electrical fast transients (EFT), the camera may lose function and require user to reset the camera.
- Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.
- Please avoid using the camera in high or low temperature. Operation temperature range is 32°F - 104°F (0°C - 40°C).
- It is normal that the temperature of the camera body rises after being in use for a long period.
- Do not leave this camera in places subject to extremely high temperatures such as in a sealed vehicle, direct sunlight or other places with extreme variances in temperature. Exposure to extreme temperatures may adversely affect the camera's internal components and could cause a fire.
- Always use the camera and its accessories in a well-ventilated area.
- Allowing dust to accumulate in the camera over a long period of time is hazardous and in extreme circumstances may cause a fire. It is best to clean your camera prior to seasonal periods of high humidity.

Precautions for batteries:
- Use 2x AAA batteries only.
- Dispose of the batteries in a manner that complies with applicable laws.
- Leakage, overheating, or burst batteries could result in fire or injury.
- Do not short circuit, heat or dispose of batteries in fire.
- Do not use old batteries with new ones, or mix brands of batteries.
- Ensure the batteries are positioned correctly with regard to polarity (+/-).
- Batteries may lose power if kept inside the camera for a long time without using. Please remove the batteries while the camera is not in use.
- Do not use manganese batteries as they cannot supply sufficient power to support the camera's operations.
- Batteries may not work normally under 32°F (0°C).

Precautions for SD Memory Cards:
- In the event of malfunction or damage, it is possible that data may be lost. Concord Camera is not responsible in any way for such data loss.
- Do not touch the terminals with hands or metal objects.
- Keep dust, water and foreign objects away from the terminal section.
- Avoid heat, liquid and direct sunlight when using and for when storing.
- Do not open the battery/card cover or remove the SD Memory Card while data is being read or written.
- Do not dismantle or modify.
- The recorded data may be lost if the card is affected by strong static electricity, electrical shock, during card repair or malfunction.
- When using SD memory cards, do not change the attributes (read-only, etc.) of the files (pictures (JPEG) or video clips (AVI) on the card. Doing so may prevent the camera from working properly when deleting, etc.
- Do not change the file names or the directory name of the pictures or video clips using a computer or save files other than pictures or video clips taken by this camera onto the SD memory card.

Pictures or video clips that have been edited or added to the SD memory card with the computer may not play back and it may cause the camera to malfunction.

- The SD Memory Card includes a write-protect switch. Sliding this switch downward prevents data from being written to the card and pictures and video clips saved on the card are protected.
- Please note that pictures and video clips cannot be taken or deleted when the write-protect switch is on.
- When using a large-capacity card, writing, reading and deleting may take some time.
- Do not store the card in places with high humidity, dusty places or where static electricity or electromagnetic fields are likely to occur.
- Images stored in the memory card may be ruined or damaged if you turn off the camera while it is in process of reading, writing or formatting etc.
- SD cards are delicate electronic devices. Please do not bend or drop them
- Please do not place the card in or near to an environment of strong electronic or magnetic fields such as loud speakers or TV receivers.
- Please keep the SD card in its bag or case when not in use.
- It’s normal that the SD card is warm after use.

REGULATORY INFORMATION

FCC INFORMATION

FCC WARNING: This equipment meets the limits for a Class B digital device, pursuant to Part 15 of FCC rules.
Only the cable supplied with the camera should be used. Operation with other cables is likely to result in interference to radio and TV reception and could void the user's authorization to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Tested to comply
with FCC standards
for HOME OR OFFICE USE

Changes or modifications not expressly approved by the manufacturer may void the user's authority to operate this equipment.

USER INFORMATION

NOTE: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful
interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

VCCI INFORMATION

This is a Class B product, to be used in a domestic environment, based on the Technical Requirement of the Voluntary Control Council for Interference (VCCI) from Information Technology Equipment. If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Please install and use the equipment according to this instruction manual.

CE - This product is in conformity with Directive 89/336/EEC.

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